Notice of Allowability	Application No.	Applicant(s)
	10/692,169	BODIN ET AL.
	Examiner	Art Unit
	CUONG H. NGUYEN	3661
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included
1. This communication is responsive to		
2. The allowed claim(s) is/are 1-33; formal drawings are acce	<u>pted</u> .	
<ul> <li>3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. </li> <li>4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give</li> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> </ul>	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  itted. Note the attached EXAMINER as reason(s) why the oath or declara-	national stage application from the complying with the requirements
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawine header according to 37 CFR 1.121(	ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal F	totant Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	Paper No./Mail Da 7. Examiner's Amendr	te
Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ul><li>8.</li></ul>	ent of Reasons for Allowance
	. <u> </u>	CUONG H. NGUYEN Primary Examiner Art Unit: 3661

## **DETAILED ACTION**

- 1. This Office Action is the answer to an amendment received on 11/13/2006.
- 2. Claims 1-33 are pending in this application.

## **Drawings**

3. This application has been filed with formal drawings which are acceptable.

## Allowable Subject Matter & Reason for Allowance

- 4. Independent claims 1, 12, and 23 are considered non-obvious over cited references of Bodin et al. (US Publication 20050090972 A1), in view of Nichol et al. (US Pat.: 5,986,604), because these references do not anticipate about disclosing a system and a method for navigating an unmanned aerial vehicle (UAV), comprising:
- means for receiving in a remote control device a user's selection of a GUI map pixel that represents a waypoint for UAV navigation, the pixel having a location on the GUI; and means for mapping the pixel's location on the GUI to Earth coordinates of the waypoint.

Bodin et al.'s reference cannot be used to reject this pending invention because of the same assignee. This reference discloses an unmanned aerial vehicle navigating method, involves reading starting position of vehicle from receiver on vehicle, and piloting vehicle from starting position to waypoint, based on navigation algorithm. The method involves receiving a user's selection of a map pixel representing a waypoint for unmanned aerial vehicle navigation, at a remote control device. The pixel is mapped to waypoint coordinates, and the waypoint is transmitted to the UAV. A starting position of the UAV, is read from a GPS receiver on the UAV, and the UAV is piloted from the starting position to the waypoint, based on a navigation algorithm.

Nichols et al. teach a survey coordinate transformation method for map-aided navigation system using a selected sum of magnitude of difference between the coordinates of previously surveyed location in second coordinate, and the result of applying the transformation to the previously surveyed location in first coordinate is generated. The adjustable parameter is chosen to minimize the selected sum. This way gives determination in survey locations with greater accuracy. This invention is not in the same field of endeavor.

5. Dependent claims 2-11, 13-22, and 24-33 are allowable since they are dependent on claims 1, 12, and 23.

## Conclusion

- 6. Claims 1-33 are patentable.
- 7. Note: On page 22, 2<sup>nd</sup> para. of the Response dated 11/13/2006. the applicants argue at length about the specification's background was used by the examiner to characterize the invention. The law permits the examiner to use Applicant Admitted Prior Art (anything in the disclosure) to examine the current status of the art of this field of application; nothing is wrong in using that disclosed background to justify there is a significant improvement in UAV field (because that what was supplied to the examiner to see an implementation if not relying on that disclosure, the examiner MUST request a submission (PTO- 1.105) of prior art from the applicants since they implement the invention from what they already know, especially that an examiner is ONLY allocated a small amount of time to search for prior art; therefore, what the applicants disclose are always helpful to pinpoint what the improvement is all about).
- 8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759 (email address: cuong.nguyen@uspto.gov). The examiner can normally be reached on 9:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the organization where this application is assigned is 571-273-6956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Please provide support, with page and line numbers, for any amended or new claim in an effort to help advance prosecution; otherwise any new claim language that is introduced in an amended or new claim may be considered as new matter, especially if the Application is a Jumbo Application.

CUONG/H. NOUYEN
Primary Examiner
Art Unit 3661